

AMENDMENTS TO THE CLAIMS

Claims 1-17 (canceled).

18. (Previously presented) A flow diverter valve assembly comprising:
a valve body defining a plurality of flow passageways;
a rotatable diverter cartridge positioned within said valve body, said rotatable diverter cartridge defining a plurality of detent recesses;
a cap assembled into said valve body and being positioned between said valve body and said rotatable diverter cartridge, said cap including at least one deflectable detent finger constructed and arranged to sequentially engage each of said plurality of detent recesses;
wherein each deflectable detent finger includes a raised bump, said raised bump being the portion of each deflectable detent finger that engages its corresponding detent recess; and
means for manually rotating said rotatable diverter cartridge relative to said cap to change one detent engagement to another detent engagement, wherein each detent engagement corresponds to a different fluid flow selection.

19. (Previously presented) A flow diverter valve assembly comprising:
a valve body defining a plurality of flow passageways;
a rotatable diverter cartridge positioned within said valve body, said rotatable diverter cartridge defining six detent recesses, a flow inlet port, and three flow outlet ports;
a cap assembled into said valve body and being positioned between said valve body and said rotatable diverter cartridge, said cap including at pair of deflectable detent fingers constructed and arranged to sequentially engage each of said six detent recesses;
wherein each deflectable detent finger includes a raised bump, said raised bump being the portion of each deflectable detent finger that engages its corresponding detent recess; and

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means for manually rotating said rotatable diverter cartridge relative to said cap to change one detent engagement to another detent engagement, wherein each detent engagement corresponds to a different fluid flow selection, wherein said six detent recesses are circumferentially, equally spaced apart and said pair of deflectable detent fingers are equally spaced apart such that detent recess engagement by one detent finger occurs when the other detent finger engages another detent recess.

20. (Previously presented) A flow diverter valve assembly comprising:

a valve body defining a plurality of flow passageways;

a rotatable diverter cartridge positioned within said valve body, said rotatable diverter cartridge defining a plurality of detent recesses;

a cap assembled into said valve body and being positioned between said valve body and said rotatable diverter cartridge, said cap including a pair of deflectable detent fingers constructed and arranged to sequentially engage each of said plurality of detent recesses, wherein each deflectable detent finger includes a raised bump, said raised bump being the portion of each deflectable detent finger that engages its corresponding detent recess; and

means for manually rotating said rotatable diverter cartridge relative to said cap to change one detent engagement to another detent engagement, wherein each detent engagement corresponds to a different fluid flow selection.

21. (Previously presented) A flow diverter valve assembly comprising:

a valve body defining a plurality of flow passageways;

a rotatable diverter cartridge positioned within said valve body, said rotatable diverter cartridge defining a plurality of detent recesses;

a cap assembled into said valve body and being positioned between said valve body and said rotatable diverter cartridge, said cap including a pair of deflectable detent fingers constructed and arranged to sequentially engage each of said plurality of detent recesses;

an annular O-ring positioned between said cap and said valve body, wherein said cap defines a pair of arcuate O-ring grooves, each O-ring groove being positioned between said deflectable detent fingers; and

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means for manually rotating said rotatable diverter cartridge relative to said cap to change one detent engagement to another detent engagement, wherein each detent engagement corresponds to a different fluid flow selection.

22. (Previously presented) A flow diverter valve assembly comprising:
a valve body defining a plurality of flow passageways;
a rotatable diverter cartridge positioned within said valve body, said rotatable diverter cartridge defining a plurality of detent recesses;
a cap assembled into said valve body and being positioned between said valve body and said rotatable diverter cartridge, said cap including at least one deflectable detent finger constructed and arranged to sequentially engage each of said plurality of detent recesses, wherein said cap defines a pair of slots associated with each deflectable detent finger, each pair of said slots being positioned adjacent their corresponding deflectable detent finger; and
means for manually rotating said rotatable diverter cartridge relative to said cap to change one detent engagement to another detent engagement, wherein each detent engagement corresponds to a different fluid flow selection.

23. (Canceled)

24. (New) The flow diverter valve assembly of claim 18 which further includes an annular O-ring positioned between said cap and said valve body.

25. (New) The flow diverter valve assembly of claim 24 wherein said cap defines a pair of slots associated with each deflectable detent finger, each pair of said slots being positioned adjacent their corresponding deflectable detent finger.

26. (New) The flow diverter valve assembly of claim 25 wherein said cap defines a pair of arcuate O-ring grooves, each O-ring groove being positioned between said deflectable detent fingers.

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